SIEMENS

SIREMOBIL Iso-C

SP

Planning Guide

System

From Serial Number ≥ 01020

© Siemens AG 1997
The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

English
Print No.: SPR2-230.021.01.08.02
Doc. Gen. Date: 08.04
Replaces: SPR2-230.021.01.07.02

Chapter	Page	Revision
all	all	01
all	all	02
all	all	03
all	all	04
all	all	05
all	all	06
all	all	07
all	all	08

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery.

Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

Page

1 General Notes 1 - 1

General Notes . . . 1 - 1
Safety . . . 1 - 2
Further Information for Detail Planning . . . 1 - 2

2 Room Planning 2 - 1

Dimensions of the SIREMOBIL Iso-C with 23 cm (9") X-ray image intensifier . . . 2 - 1
Dimensions of the SIREMOBIL Iso-C with 27 cm (11") X-ray image intensifier . . . 2 - 2
Dimensions of the monitor trolley . . . 2 - 3

3 Preparation for Installation 3 - 1

Building Electrical Installation . . . 3 - 1

4 Technical Data 4 - 1

Electrical data . . . 4 - 1
Weight and heat dissipation . . . 4 - 1
Ambient temperature and relative humidity . . . 4 - 1
Crating and transport routes. . . . 4 - 2
Surface colors . . . 4 - 2

5 Changes to Previous Version 5 - 1

General Notes

- With distribution of these revision level, all preceding planning guides, Speed - Infos (PG's) and drafts lose their validity.

- All layouts issued by the Planning Departments must bear a note referring to the installation and delivery conditions of Siemens Medical Solutions. The installation and delivery conditions must be submitted with the layouts.

- Unless otherwise specified, all dimensions are indicated in "mm".

⧫ - The symbol indicates a change (see revision status).

- Orientation points
  Points specific to system components to which reference is made when positioning system components to each other or in the room.
  The isocenter of a radiographic system is always illustrated as the orientation point.

- Fixpoints
  Clearly marked points on system components, installation ceiling, walls or floor on which cable outlets are located.
  Illustration in the drawings: octagon with letter/number-combination.
  The cable lengths specify the maximum fixpoint distances and thus the maximum distances between the individual system components.

- Room height
  The room height is the distance measured from the top surface of the floor to the bottom surface of the ceiling structural elements (Unistrut rails) (bottom surface of drop ceiling).

- Room lighting
  According to DIN 68 68-57 (international standard in preparation), the lighting in rooms in which image playback devices (monitors) are used for diagnosis, the following requirements must be met:

  adjustable, no anti-glare screen, reproducible adjustment of the lighting (e. g. dimmer with scala),

  no glare or reflection from windows, lights and light boxes in the standard working position of the monitors.

Hotline + 49 (9191) 18 - 8080

Safety

- The provisions of the relevant fire safety regulations must be observed for the premises.

- The system has been developed according to EN 60601 - 1.

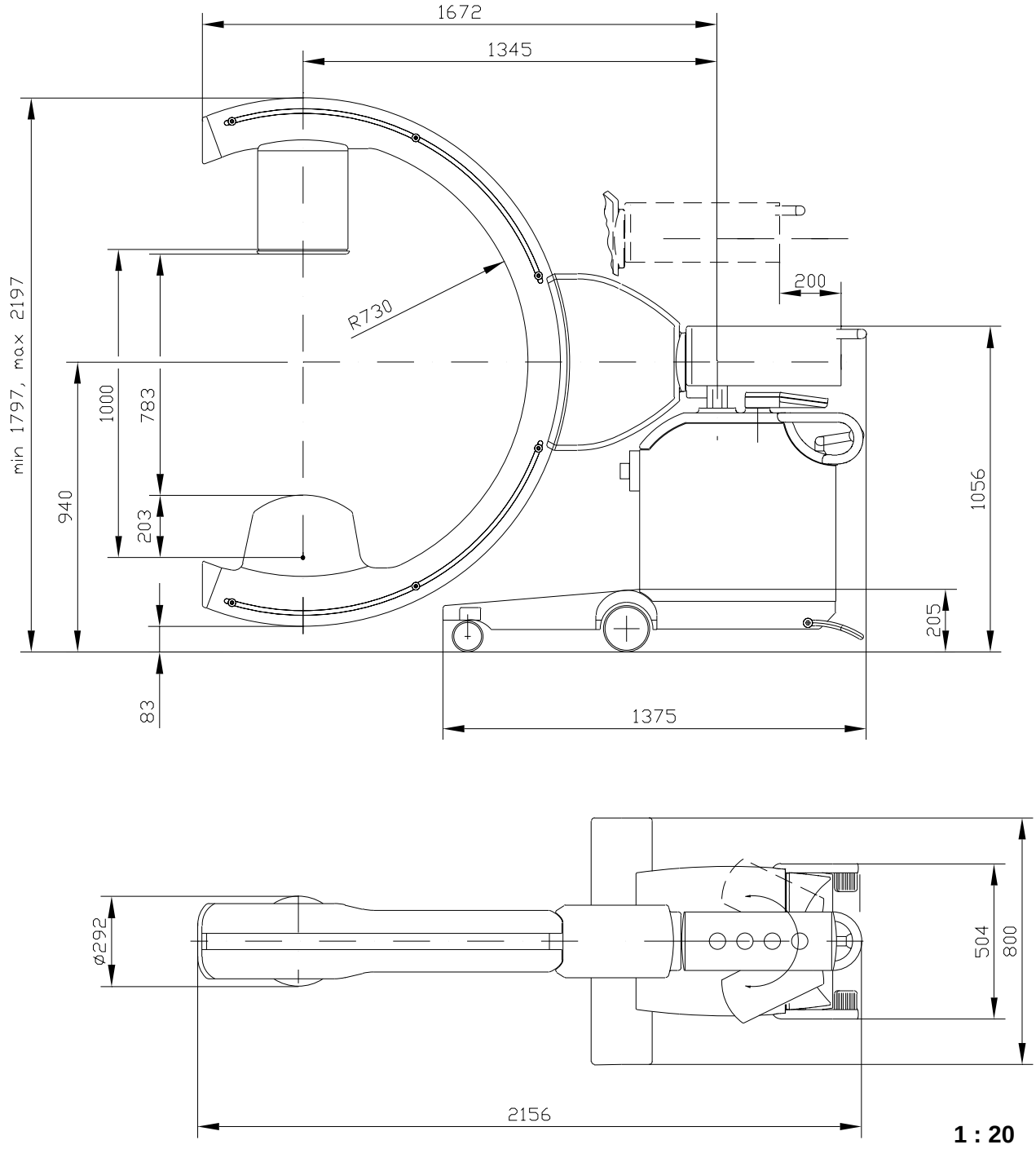
- Minimum dimensions (e. g. room heights, safety distances) indicated in the planning guides are marked "min."

- Basic strength against electromagnetic sources of interference.
  Result of lightning discharges.
  The protection targets of the different lightning protection areas up to the unit connection are also specified in the IEC 1024, DIN 48810, VDE 0675 and in the DEMVT recommendations.

Further Information for Detail Planning

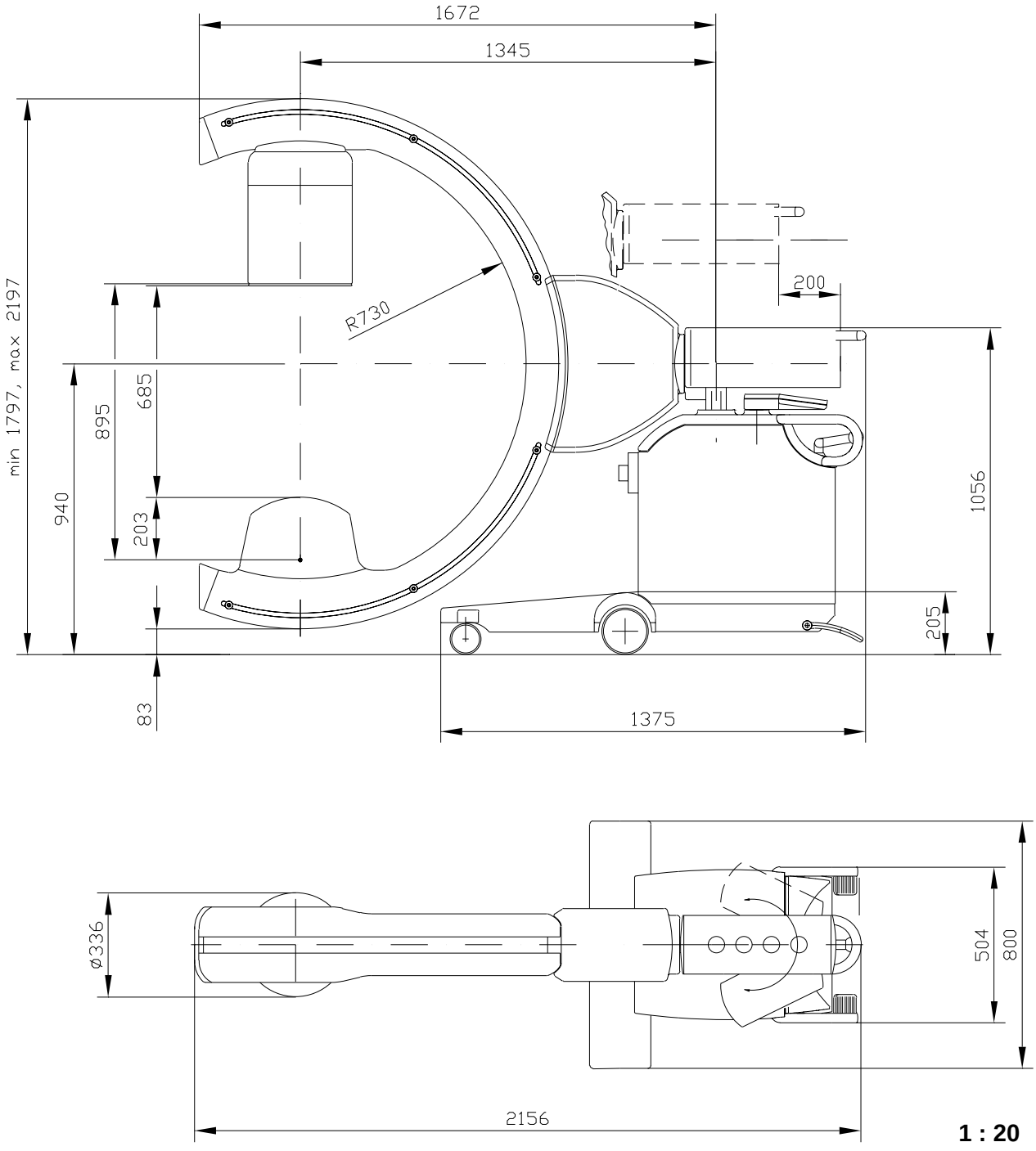
- PG: SIREMOBIL Option
  Multi-room Connection/4View Monitor Option
  SPR2-130.891.02...

Dimensions of the SIREMOBIL Iso-C with 23 cm (9") X-ray image intensifier



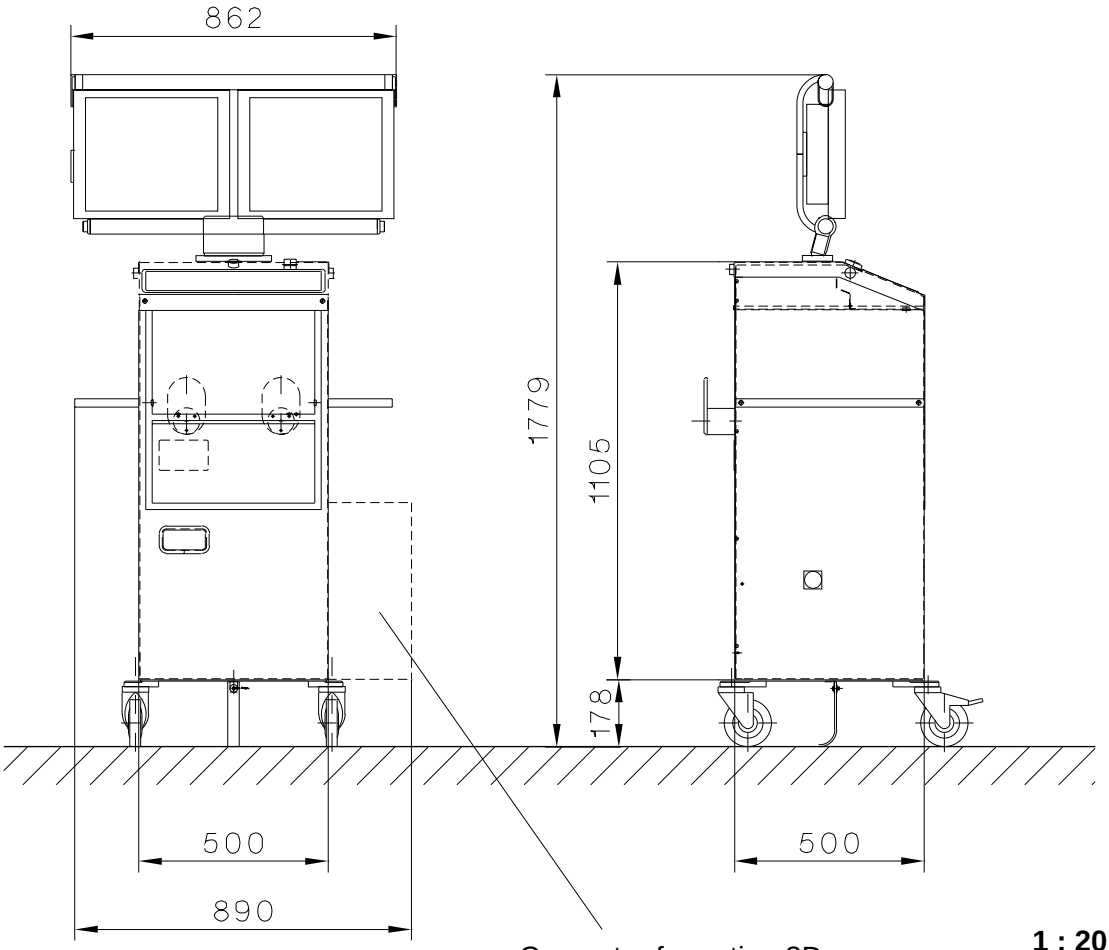
Horizontal travel:	200 mm
Vertical travel:	400 mm
Angulation:	± 190 °
Orbital swivel range:	190° (± 95°)
Horizontal swivel range:	± 12.5°

Dimensions of the SIREMOBIL Iso-C with 27 cm (11") X-ray image intensifier



Horizontal travel:	200 mm
Vertical travel:	400 mm
Angulation:	± 190°
Orbital swivel range:	190° (± 95°)
Horizontal swivel range:	± 12.5°

Dimensions of the monitor trolley



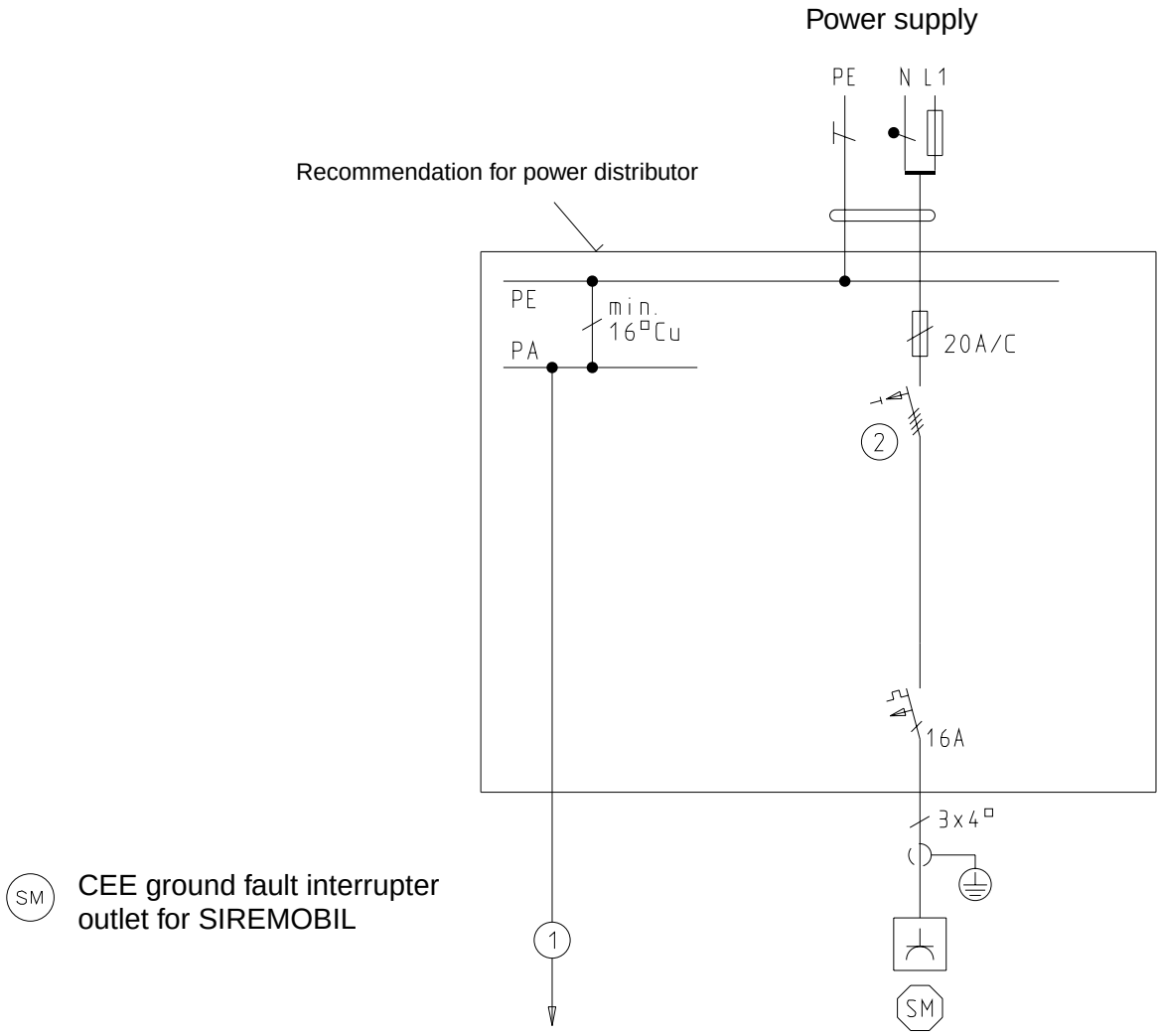
Computer for option 3D

1 : 20

This page intentionally left blank.

Building Electrical Installation

Recommendation for on-site power distributor per DIN VDE 0100-710 national regulations



1 To external, conductive parts

2 FI - switch 63 A/$I_{\Delta N}$ 30 mA, U_N = 400/415 V ~ for alternating and pulsing direct current faults
(recommendationing: Siemens FI 5SZ3 466 0KG05 All-current sensitive or
ABB No. F 804 - 63 /0,03.
Order from ABB Stotz; contact Heidelberg Tel. 06221 701-00).
For other power line voltages, an appropriate Fi - switch must be obtained locally.

The listed fuse ratings apply for an operating voltage of 230 V 1 ~ / 400 V 3 ~
If there are fluctuating operating voltages, the fuse ratings must be changed to conform to national regulations.

NOTE **In the USA, a 110 V or 230 V connector is in the shipment as defined in the order (USA standard connection design).**

NOTE

New Power Cable for Units Shipped to Great Britain/Irland.

Since July 2003, systems shipped to GB/IE include a new power cable with a country-specific power connector.

The cable length has been reduced to 5 m to meet all regulations and standards.
The connector includes an additional 13 A slow-blow fuse.
The values of the internal fuses in the systems (fuse F1 and F2) are not affected.

Electrical data

	Line voltage connection *1 V	Fuses (internal) A	Internal line impedance Ω	Power consumption kVA
SIREMOBIL Iso-C and Iso-C 3D	100/110/120/127/ 200/230/240 ± 10% 50/60Hz ± 1Hz	15 slow-blow from 200 V 20 slow-blow up to 127 V	≤ 0.30 100/110/120/127 V ≤ 0.80 200V/230V/240V	Short-term: 2.9 Long-term: 1.65

*1 The range can be set depending on the BZ.
Take note of the remarks regarding multi-room connection.

Weight and heat dissipation

	Weight [**kg**]	**Heat dissipation** [**W**]
SIREMOBIL Iso-C with 23 cm I.I.	approx. 350	approx. 500
SIREMOBIL Iso-C 3D with 23 cm I.I.	approx. 365	approx. 500
SIREMOBIL Iso-C with 27 cm I.I.	approx. 375	approx. 500
Monitor trolley	approx. 195	approx. 600
Monitor trolley with 3D PC	approx. 205	approx. 600

Ambient temperature and relative humidity

SIREMOBIL Iso-C	**In operation**	**Transport / storage**
permissible ambient temperature	+ 10° C ... + 37° C	- 20° C ... + 37° C
permissible relative humidity	15 % ...75 %	10 % ... 100 %

SIREMOBIL Iso-C 3D	**In operation**	**Transport / storage**
permissible ambient temperature	+ 15° C ... + 35° C	- 15° C ... + 37° C
permissible relative humidity	20 % ...80 %	10 % ... 85 %

Crating and transport routes

Largest crate	L 2450 x W 990 x H 2100 mm
Heaviest single component with 23 cm I.I.	approx. 350 kg without packing approx. 500 kg included packing (standard packing) approx. 650 kg included packing (overseas packing)
Heaviest single component with Iso-C 3D with 23 cm I.I.	approx. 365 kg without packing approx. 515 kg included packing (standard packing) approx. 665 kg included packing (overseas packing)
Heaviest single component with 27 cm I.I.	approx. 375 kg without packing approx. 500 kg included packing (standard packing) approx. 675 kg included packing (overseas packing)
min. door width for transporting the unpacked system	min. 810 mm door width

Surface colors

Basic color	Medical White C610
Combination color	Medium Basic C701

Chapter	Page	Change
0 - 5		Rev. level of document changed from 07 to 08.
2	2-3	New illustration added.
2	2-4	Page removed
3	3-1	On-site electrical installation text updadet, note text added and PG Speed Info 001/03/SP integrated.
4	4-2	Surface colors updadet.
5	5-1	Changes to previous version updated.

This page intentionally left blank.